

CLAIMS

What is claimed is:

1. A cleaning device for swimming pools comprising:
  - 5 a handle; and
  - a cleaning composite formed on the handle including
    - (i) a polymer having an elongation at break of 500%,
    - 10 (ii) a first type of aggregate, and
    - (iii) a second type of aggregate which is smaller than the first type.
2. The claimed device of claim 1, wherein said polymer is Smooth-On PMC 121/50.
- 15 3. The claimed device of claim 1, wherein the first type of aggregate is silica sand no. 30 and the second type of aggregate is silica sand no. 20.
4. The claimed device of claim 1, wherein the first type of aggregate is friable and the second type  
20 of aggregate is friable.
5. A cleaning composition comprising:
  - a first type of aggregate which is friable;
  - a second type of aggregate which is friable;
  - a binder for binding the first and second  
25 types of aggregate together;

wherein upon the cleaning composition being scrubbed against a concrete structure, the first and second type of aggregate and the binder all wear at substantially the same rate.
- 30 6. The cleaning composition of claim 5, wherein

the first type of aggregate is silica sand no. 20 and the second type of aggregate is silica sand no. 30.

7. The cleaning composition of claim 5, wherein the binder is a polymer having an elongation to break of 5 500%, a tensile strength of 350 PSI and shore A hardness of 50.

8. The cleaning composition of claim 5, further comprising a polymer thinner.

9. The cleaning composition of claim 8, wherein 10 the polymer thinner is methyl ethyl ketone.

10. A cleaning composition for cleaning swimming pool walls, consisting essentially of:

about 40% by volume of a polymer having an elongation to break of 500%, a tensile strength of 350 15 PSI and a shore A hardness of 50;

about 5% by volume of a polymer thinner;

about 55% by volume of an aggregate which is friable.

11. The cleaning composition of claim 10, wherein 20 the aggregate comprises a 1:1 mix of silica sand no. 20 and silica sand no. 30.

12. The cleaning composition of claim 10, wherein the polymer thinner is methyl ethyl ketone.

13. The cleaning composition of claim 10, wherein 25 the polymer is Smooth-On PMC-121/50.

14. A method of making a cleaning device for cleaning swimming pool walls, comprising:

mixing a two part polymer composition having a 50 shore A hardness and 500% elongation at break in a 30 1:1 ratio;

mixing a polymer thinner with the polymer;  
adding an aggregate comprising 50% silica sand  
20 and 50% silica sand 30 to the mixture;  
molding said mixture for a first predetermined  
5 time; and  
curing the molded mixture for a second  
predetermined time.

15. The method of claim 14, wherein said first  
predetermined time is 4-6 hours.

10 16. The method of claim 14, wherein said second  
predetermined time is 6-7 days.

17. The method of claim 14, wherein said polymer  
thinner is MEK.

15 18. The method of claim 14, wherein said two part  
polymer composition is SMOOTH-ON PMC-121/50.

19. The method of claim 14, further comprising  
adding titanium dioxide to the mixture.